UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

23451

7590

06/27/2003

ROBERT R HUSSEY CO., LPA P O BOX 400 NORTH OLMSTED, OH 440700400 EXAMINER

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DOUGLAS, STEVEN O

ART UNIT CLASS-SUBCLASS

3751 141-067000

DATE MAILED: 06/27/2003

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/082 590	02/23/2002	Randall F. Carter	PTC-001-005	5693	

TITLE OF INVENTION: REFRIGERANT MATERIAL TRANSFER DEVICE AND METHOD

1	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	YES	\$650	\$0	\$650	09/29/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEÉ(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

(703)746-4000 Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee stiffertiers. maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

4

ROBERT R HUSSEY CO., LPA **POBOX 400** NORTH OLMSTED, OH 440700400 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below

(Depositor's name (Signature (Date

ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 10/082,590 02/23/2002 Randall E. Carter PTC-001-005 5693

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APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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EXAMINER		ART UNIT CLASS-SUBCLASS		,	
DOUGLAS, S	STEVEN O	3751	141-067000		
CFR 1.363).	nce address or indication of	,	2. For printing on the patent the names of up to 3 register or agents OR, alternatively,	red patent attorneys	
Address form PTO/SB/1:	22) attached.	•	single firm (having as a m attorney or agent) and the		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or is listed, no name will be print	agents. If no name	<del></del>

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories	(will not be printed on the patent)	individual	□ corporation or other private group entity	☐ government		
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):					
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.					
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Advance Order - # of Copies	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).					
Commissioner for Batanta is requested to apply the James Fee	and Dublication For (if any) or to se	مندنست دست ساست	ush maid issue for to the sumlication identify	ad about		

sted to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND TEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents Alexandria Virginia 22313-1450. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandra, Virginia 22313-1450

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/082,590	02	2/23/2002	Randall E. Carter	PTC-001-005	5693	
23451	7590	06/27/2003		EXAMINER		
ROBERT R HUSSEY CO., LPA			DOUGLAS, S'	TEVEN O		
P O BOX 400 NORTH OLMS	TED. OH 4	140700400		ART UNIT	PAPER NUMBER	
	, , , , , , ,			3751	6	
				DATE MAILED: 06/27/2003	•	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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ROBERT R HUSSEY CO., LPA			DOUGLAS, STEVEN O		
P O BOX 400 NORTH OLMSTED, OH 440700400		ſ	ART UNIT	PAPER NUMBER	
	•		3751		
			DATE MAILED: 06/27/2003		

### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: <a href="http://www.uspto.gov/main/howtofees.htm">http://www.uspto.gov/main/howtofees.htm</a>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	V
Nation of Allowahilites	10/082,590	CARTER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Steven O. Douglas	3751	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
<ol> <li>This communication is responsive to papers filed 6-20-03.</li> <li>The allowed claim(s) is/are 1-10,12-21,23,24 and 27-33.</li> <li>The drawings filed on 23 February 2002 are accepted by the drawings filed on 23 February 2002 are accepted by the drawings filed on 23 February 2002 are accepted by the drawings filed on 23 February 2002 are accepted by the drawings filed on 25 February 2002 are accepted by the drawings filed on 25 February 2002 are accepted by the drawings filed on 25 February 2002 are accepted by the drawings filed on 25 February 2002 are accepted by the drawings for documents have 25 February 2002 are accepted by the drawings filed on 25 February 2002 are accepted by the drawings</li></ol>	the Examiner.  der 35 U.S.C. § 119(a)-(d) or (f).  e been received. e been received in Application No  cuments have been received in this  under 35 U.S.C. § 119(e) (to a provisicapplication has been received.	national stage applica	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" or below. Failure to timely comply will result in ABANDONMENT of  7.   A SUBSTITUTE OATH OR DECLARATION must be submit of the below of t	f this communication to file a reply co this application. THIS THREE-MOI nitted. Note the attached EXAMINER	NTH PERIOD IS NOT BYS AMENDMENT or B	EXTENDABLE.
<ol> <li>CORRECTED DRAWINGS must be submitted.</li> <li>(a) including changes required by the Notice of Draftsper         <ul> <li>1) hereto or 2) to Paper No.</li> <li>(b) including changes required by the proposed drawing</li> <li>(c) including changes required by the attached Examiner</li> </ul> </li> <li>Identifying indicla such as the application number (see 37 CFR 1 each sheet.</li> </ol>	correction filed, which has be	een approved by the E Office action of Paper	No
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T</li> </ol>	OSIT OF BIOLOGICAL MATERIAL R THE DEPOSIT OF BIOLOGICAL MA	nust be submitted. I TERIAL.	Note the
Attachment(s)			
<ul> <li>1 Notice of References Cited (PTO-892)</li> <li>3 Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 Information Disclosure Statements (PTO-1449), Paper No</li> <li>7 Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4☐ Interview Summ 6☐ Examiner's Ame	al Patent Application ( ary (PTO-413), Paper Indment/Comment Index of Reasons for Steven O. Douglas Primary Examiner Art Unit: 3751	No